

Attachment 1

Part 3: Change Release from A to B:

RTM Baseline: 7/31/96

L4 id	rel	req_type	req_status	ver_method	ver_status	CCR	text
F-HRD-00005	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		Each Real-Time Server shall be physically and functionally identical in supporting the FOS processing requirements .
F-HRD-00080	<u>AB</u>	standards	<u>approved</u>	inspection	<u>un-verified</u>		The cabinet shall accommodate EIA Universal Standard RS-310 hole spacing or provide for a continuously adjustable equipment and panel mounting system.
F-HRD-02085	<u>AB</u>	standards	<u>approved</u>	inspection	<u>un-verified</u>		The cabinet shall accommodate EIA Universal Standard RS-310 hole spacing or

							provide for a continuously adjustable equipment and panel mounting system.
F-HRD-03015	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The RAID storage shall provide a minimum of 40 usable gigabytes.
F-HRD-04005	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		There shall be a minimum of five system printers located at the EOC.
F-HRD-04010	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The system printers shall be physically and functionally identical in supporting the FOS printing requirements .
F-HRD-04020	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		There shall be a minimum of two logging printers located at the EOC.

F-HRD-05020	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		There shall be a minimum of two time code displays located at the EOC.
F-HRD-05025	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		There shall be at least one up counter, down counter and universal time code display in the EOC.
F-HRD-07005	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The EOC shall provide (for AM-1) three (3) Real-Time Servers configured with: a. Six Fixed Disks (two per Real-Time Server) b. Three Tape Drives (one per Real-Time Server) c. Three CD-ROM Drives (one per Real-

							Time Server) d. Three Operator Consoles (one per Real-Time Server) e. Three System Printers (one per Real-Time Server) f. Three Timing Interfaces (one per Real-Time Server)
F-HRD-07010	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The EOC shall provide (36) User Stations, which can perform any EOC subsystem function.
F-HRD-07015	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The EOC shall provide three (3) Data Servers configured with: a. Six Fixed Disks (two per Data Server) b. Three

							Tape Drives (one per Data Server) c. Three CD-ROM Drives (one per Data Server) d. Three Operator Consoles (one per Data Server)
F-CMS- 01150	<u>AB</u>	functional	approved	demo	<u>un-verified</u>		The EOC shall generate a table load report whenever a table load is generated.
F-CMS- 01330	<u>AB</u>	functional	approved	demo	<u>un-verified</u>		The EOC shall generate a microproces sor load report whenever a microproces sor load is generated.
F-TLM- 01545	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The EOC shall provide the capability to enable and disable the storage of housekeepin g and

							instrument engineering telemetry.
F-TLM-11320	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The FOS shall provide the capability to process a maximum of fifty (50) AM-1 derived parameters at a given time.
F-CMD-02130	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The EOC shall support the generation of FARM control commands.
F-ANA-02010	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The FOS, by default, shall determine the appropriate data base to use for processing each request for data analysis.
F-ANA-03060	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		If a telemetry parameter requested for analysis does not

							occur within the requested time span, all reports and plots containing a reference to the parameter shall indicate that the parameter was not found.
F-ANA-03100	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall provide the capability to process a request for telemetry MMM data at daily resolution for any time span greater than or equal to one day and up to the life of the specified mission.
F-ANA-03110	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall provide the capability to process a request for telemetry

							MMM data at monthly resolution for any time span greater than or equal to one month and up to the life of the specified mission.
F-ANA-03120	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall provide the capability process a request for telemetry MMM data at orbit night resolution for any time span greater than or equal to one orbit and up to the lifetime of the mission.
F-ANA-03130	<u>AB</u>	<u>functional</u>	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall provide the capability process a request for telemetry MMM data at full orbit resolution for any time

							span greater than or equal to one orbit and up to the lifetime of the mission.
F-ANA-05010	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall generate and store the following statistics for each telemetry mnemonic: a. Minimum value b. Spacecraft time for the minimum value c. Maximum value d. Spacecraft time for the maximum value e. Mean f. Standard Deviation g. Number of samples
F-ANA-05020	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for full orbital intervals for

							each analog telemetry parameter for the life of the mission.
F-ANA-05030	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for full orbital intervals for each data base defined derived parameter for the life of the mission.
F-ANA-05031	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for orbit day intervals for each analog telemetry parameter for the life of the mission.
F-ANA-05032	<u>AB</u>	<u>functional</u>	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for orbit day intervals for data base defined derived

							parameter for the life of the mission.
F-ANA- 05033	<u>AB</u>	<u>functional</u>	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for orbit night intervals for each analog telemetry parameter for the life of the mission.
F-ANA- 05034	<u>AB</u>	<u>functional</u>	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for orbit night intervals for each data base defined derived parameter for the life of the mission.
F-ANA- 05040	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for daily intervals for each analog telemetry parameter for the life of the

							mission.
F-ANA-05050	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for daily intervals for each data base defined derived parameter for the life of the mission.
F-ANA-05060	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for monthly intervals for each analog telemetry parameter for the life of the mission.
F-ANA-05070	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for monthly intervals for each data base defined derived parameter for the life of the mission.
F-ANA-	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS

05080							shall compute statistics for each analog telemetry parameter for the mission to-date.
F-ANA-05090	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall compute statistics for each data base defined derived parameter for the mission to-date.
F-DMS-00170	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The EOC shall accept spacecraft and instrument constraint definitions.
F-DMS-00235	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide authorized users the capability to add activity definitions to the PDB.
F-DMS-00240	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide authorized users the capability to

							delete activity definitions maintained in the PDB.
F-DMS-00245	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide authorized users the capability to modify activity definitions maintained in the PDB.
F-DMS-00330	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide the capability to perform validation on the activity definitions maintained in the PDB.
F-DMS-00340	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide the capability to perform validation on the constraint definitions maintained in the PDB.
F-DMS-00630	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The EOC shall provide for operational

							use of the activity PDB definitions.
F-FUI-01120	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The FOS shall provide the capability to delete a room.
F-FUI-06115	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The FOS shall allow a user to resume a suspended procedure.
F-FUI-06120	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The FOS shall allow multiple local procedures to execute simultaneously.
F-FUI-06125	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		The FOS shall allow only one ground system procedure per logical string to execute at any time.
F-FUI-06130	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The FOS shall provide a display that allows a user to monitor the

							execution of a non-command procedure invoked from the user's workstation.
F-FUI-06135	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The FOS shall provide a display that allows a user to control the execution of a non-command procedure invoked from the user's workstation.
F-FUI-07605	<u>AB</u>	functional	<u>approved</u>	demo	<u>un-verified</u>		The FOS shall provide the user with the capability to display up to 50 telemetry parameters and their associated data in an Info window.
F-DMS-00750	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The EOC shall insure that the telemetry archive does

							not contain duplicate data.
F-DMS-01240	<u>AB</u>	functional	approved	demo	<u>un-verified</u>		The EOC shall provide the capability to initiate a procedure based on an event.
F-FOS-00020	<u>AB</u>	interface	<u>approved</u>	test	<u>un-verified</u>		The EOC shall use and support the EDOS/Ecom interface to obtain the data formatting services, data distribution services, and data quality and accounting services needed to achieve full FOS functionality .
F-FOS-00340	<u>AB</u>	interface	<u>approved</u>	test	<u>un-verified</u>		The EOC elements shall submit TDRSS schedule requests and Ground Configuratio

							n Message Requests to the NCC.
F-FOS-00350	<u>AB</u>	interface	<u>approved</u>	test	<u>un-verified</u>		The EOC shall receive telemetry data from EDOS, including real-time and rate-buffered housekeeping and engineering data from EOS instruments and spacecraft.
F-HRD-02055	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		Each Real-Time Server shall support one CD-ROM drive.
F-HRD-02060	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		Each Real-Time Server CD-ROM drive shall have the following characteristics: a. Accept 600MB Compact Disk
F-HRD-02065	<u>AB</u>	functional	<u>approved</u>	inspection	<u>un-verified</u>		The Real-Time Server CD-ROM drives shall

							be upgradeable/replaceable within the same product family.
F-HRD-06015	<u>AB</u>	functional	<u>approved</u>	test	<u>un-verified</u>		Test equipment to be provided include: a. One communications line monitor to store and display up to 10,000 bytes of data sent and received over any of the communications lines at rates of 10MB/sec to 100MB/sec, and supporting the protocols used by FOS. b. One Metallic Cable Time Domain Reflectometer c. One

							digital VOM/multi meter d. One Local Area Network analyzer
F-ANA- 04040	<u>AB</u>	functional	<u>approved</u>	analysis	<u>un-verified</u>		The FOS shall provide the capability to generate datasets from data base defined derived parameters.

Attachment 2
Delete RBR/L4 Links
RTM Baseline 7/31/96
CCR: 96-0952 Rev. A

RBR_id	L4 id
EOC-6100#A	F-ANA-02010
EOC-6010#A	F-ANA-03060
EOC-6050#A	F-ANA-03100
EOC-6050#A	F-ANA-03110
EOC-6050#A	F-ANA-03120
EOC-6050#A	F-ANA-03130
EOC-6070#A	F-ANA-03130
EOC-6050#A	F-ANA-05010
ICC-4490#A	F-ANA-05010
ICC-7500#A	F-ANA-05010
EOC-6050#A	F-ANA-05020
EOC-6050#A	F-ANA-05030
EOC-6050#A	F-ANA-05031
EOC-6050#A	F-ANA-05032
EOC-6050#A	F-ANA-05033
EOC-6050#A	F-ANA-05034
EOC-6050#A	F-ANA-05040
EOC-6050#A	F-ANA-05050
EOC-6050#A	F-ANA-05060
EOC-6050#A	F-ANA-05070
EOC-6050#A	F-ANA-05080
EOC-6050#A	F-ANA-05090
EOC-4010#A	F-CMD-02130
EOC-3160#A	F-CMS-01150
EOC-3160#A	F-CMS-01330
AM1-0230#A	F-DMS-00170
EOC-7010#A	F-DMS-00170
EOC-7015#A	F-DMS-00170
ICC-4770#A	F-DMS-00170
ICC-4775#A	F-DMS-00170
ICC-7050#A	F-DMS-00170

EOC-7025#A	F-DMS-00235
ICC-4730#A	F-DMS-00235
EOC-7025#A	F-DMS-00240
ICC-4730#A	F-DMS-00240
EOC-7025#A	F-DMS-00245
ICC-4730#A	F-DMS-00245
EOC-7030#A	F-DMS-00330
ICC-4740#A	F-DMS-00330
EOC-7030#A	F-DMS-00340
ICC-4740#A	F-DMS-00340
EOC-7010#A	F-DMS-00630
EOC-7060#A	F-DMS-00750
ICC-4780#A	F-DMS-00750
EOC-9080#A	F-DMS-01240
FOS-0040#A	F-FUI-01120
EOC-9040#A	F-FUI-06115
ICC-6540#A	F-FUI-06115
EOC-9040#A	F-FUI-06120
ICC-6540#A	F-FUI-06120
EOC-9040#A	F-FUI-06125
ICC-6540#A	F-FUI-06125
FOS-0040#A	F-FUI-06130
FOS-0040#A	F-FUI-06135
EOC-7010#A	F-FUI-07605
EOC-9020#A	F-FUI-07605
FOS-0040#A	F-HRD-00005
FOS-0040#A	F-HRD-00080
FOS-0040#A	F-HRD-02085
FOS-0040#A	F-HRD-03015
FOS-0040#A	F-HRD-04005
FOS-0040#A	F-HRD-04010
FOS-0040#A	F-HRD-04020
FOS-0040#A	F-HRD-05020
FOS-0040#A	F-HRD-05025
FOS-0040#A	F-HRD-07005
FOS-0040#A	F-HRD-07010
FOS-0040#A	F-HRD-07015

EOC-5010#A	F-TLM-01545
EOC-5090#A	F-TLM-11320
ICC-4100#A	F-TLM-11320
EOC-4060#A	F-FOS-00340
NI-0110#A	F-FOS-00340
NI-0150-a#A	F-FOS-00340
ICC-0055#A	F-FOS-00350
EOSD1605#A	F-FOS-00350
EOC-0040#A	F-FOS-00350
FOS-0040#A	F-HRD-02055
FOS-0040#A	F-HRD-02060
FOS-0040#A	F-HRD-02065
FOS-0040#A	F-HRD-06015
EOC-6010#A	F-ANA-04040